

Garment and Textile Care Resource Guide



This booklet is part of a series of U.S. Environmental Protection Agency (EPA) publications on garment and textile care industry issues, new technologies, and research initiatives. Covering a wide range of topic and organizations, the printed and electronic information resources listed in this booklet provide information on issues currently facing the professional garment and textile care industry.

By staying on top of developments within the industry, garment and textile care professionals can improve their operations and bottom line, while

contributing to a healthy environment and safer workplace. As consumers increasingly choose "green" products and services, garment and textile care professionals who consider the health and environmental impacts of their business decisions are more likely to successfully meet the challenges of today's competitive marketplace.

Although this booklet is not an exhaustive list of resources and organizations, it does offer a starting point from which to explore issues relevant to today's professional garment and textile care industry.

EPA's Design for the Environment Program

The Design for the Environment (DfE) Program harnesses EPA's expertise and leadership to facilitate information exchange and research on risk reduction and pollution prevention efforts. Working with businesses and industries on a voluntary basis, DfE strives to:

- Assist businesses in incorporating environmental concerns into decision-making processes.
- Work with specific industries to evaluate the risks, performance, and costs of various chemicals, processes, and technologies.
- Help individual businesses undertake environmental design efforts through the application of specific tools and methods.

DfE partners include representatives from industry, professional institutions and associations, academia, environmental, labor, and public interest groups, and other government agencies.

The DfE Garment and Textile Care Program is a voluntary collaboration between the garment and textile care industry, environmental groups, and the U.S. EPA, dedicated to reducing risks and preventing pollution associated with drycleaning chemicals. Specifically, the program has focused on the risks, costs, and performance of traditional drycleaning operations in an effort to help garment and textile care professionals incorporate environmental concerns into both their day-to-day and long-term business decisions. Toward this end, EPA is promoting the evaluation of cleaner technologies and their increased use by professional cleaners.

Contents

EPA Publications	3
EPA Resources	5
Primary Program Contacts	5
Regional Offices	
Other Government Resources	6
International Resources	7
Organizational Resources	8
National Trade Associations	
Regional Trade Associations	
Labor Unions	10
Public Interest Groups	
Research and Technical Assistance	
Organizations	11
Academic Programs	12
Testing and Standard Setting Resources	13
Other Non-government Resources	13
Internet	14
EPA Resources on the Internet	
Trade Press	15

EPA Publications

Single copies of the following publications, focusing on the garment care industry, can be obtained, at no charge, from EPA's Pollution Prevention Information Clearinghouse at:

Pollution Prevention Information Clearinghouse U.S. Environmental Protection Agency 401 M Street, SW. (7409) Washington, DC 20460

Phone: 202 260-1023 Fax: 202 260-4659 E-mail: ppic@epa.gov

Alternatively, these documents can be found at the following Web Site: http://es.inel.gov/comply/sector/index.html

Design for the Environment: Garment and Textile Care Program Fact Sheet

EPA 744-F-98-012 (February 1999) 2 pages
This fact sheet provides an up-to-date description of EPA's
DfE Garment and Textile Care Program and research efforts.
Also available in Korean (EPA 744-F-98-012K) and Spanish
(EPA 744-F-98-012S).

Cleaner Technologies Substitutes Assessment for Professional Fabricare Processes

EPA 744-B-98-001 (June 1998) 474 pages
The Cleaner Technologies Substitutes Assessment (CTSA) is a document developed by the DfE Program for a technically-informed audience. The purpose of the document is to provide professional cleaners with a compendium of information on various cleaning processes, making relative comparisons on risk, cost, and performance. The EPA DfE Program hopes to encourage drycleaners to consider environmental issues, along with traditional parameters of cost and performance, when making business decisions.

Cleaner Technologies Substitutes Assessment for Professional Fabricare Processes: SUMMARY

EPA 744-S-98-001 (June 1998) 56 pages
This document, a much shorter summary version of the
Cleaner Technologies Substitutes Assessment for Professional Fabricare Processes, was abstracted from the CTSA itself and is also intended for technical audiences.

Cleaner Technologies Substitutes Assessment for Professional Fabricare Processes: Fact Sheet

EPA 744-F-98-011 (June 1998) 2 pages
This document provides an overview of the Cleaner Technologies Substitutes Assessment for Professional Fabricare Processes (CTSA). It describes what is covered in the fabricare CTSA and how it affects the public and drycleaners.

Also available in Korean (EPA 744-F-98-011K) and Spanish (EPA 744-F-98-011S).

Cleaner Technologies Substitutes Assessment for Professional Fabricare Processes: Response to Peer Review Comments

EPA 744-P-98-001 (June 1998) 410 pages
This document contains a list of the technical peer reviewers' comments and formal responses written by the EPA Technical workgroup responsible for the development of the fabricare CTSA.

Cleaner Technologies Substitutes Assessment for Professional Fabricare Processes: Peer Review Process

EPA 744-S-98-002 (June 1998) 146 pages
This document summarizes the results of the independent technical peer review of the fabricare CTSA.

Frequently Asked Questions About Drycleaning

EPA 744-K-98-002 (June 1998) 8 pages
This plain English document answers a number of frequently asked questions about drycleaning. Also available in Korean (EPA 744-K-98-002K) and Spanish (EPA 744-K-98-002S).

Wetcleaning Directory

EPA 744-B-99-002 (May 1999) 16 Pages
This booklet offers a list of professional cleaners nationwide and in Canada that offer wetcleaning services.

Garment and Textile Care: An Eye To the Future: 1998 Conference Proceedings

EPA 744-R-98-006 (October 1998) 360 pages
This proceedings document is a record of a conference held among key stakeholders in March 1998, to discuss the changes in cleaning technologies, state of the science, and taking an industrial ecology approach to garment care. The presentations included in these proceedings are based on presenters' submissions, transcribed presentations, copies of visual aids presented during the conference, and a summary of discussion sessions.

Apparel Care and the Environment— Alternative Technologies and Labeling: 1996 Conference Proceedings

EPA 744-R-96-002 (September 1996) 219 pages
This proceedings document is a record of a conference held among key stakeholders in September 1996, to learn about and discuss developments in alternative technologies and care labeling. These proceedings include transcribed presentations, copies of visual aids presented during the conference, and a summary of discussion sessions.

Training Curriculum for Alternative Clothes Cleaning, Volumes I and II

EPA 744-R-97-004a (Vol. I: Curriculum) 115 pages EPA 744-R-97-004b (Vol. II: Instructor's Manual and Presentation Materials) 192 pages This training course teaches garment care professionals and staff about wetcleaning. Developed under an EPA grant by the University of Massachusetts Toxics Use Reduction Institute, this course explains how wetcleaning works and how to operate a wetcleaning facility. The course also explains how to convert a drycleaning facility to a wetcleaning facility.

Plain English Guide for Perc Drycleaners: A Step-by-Step Approach to Understanding Federal Environmental Regulations

English: EPA 305-B-96-002 (August 1996) 64 pages This document summarizes the national environmental regulations that apply to drycleaners who use perc, and provides a step-by-step approach to compliance. Also available in Korean (EPA 305-B-97-001).

Multimedia Inspection Guidance for Drycleaning Facilities

EPA 305-F-96-001 (August 1996) 100 pages
This inspection manual was developed to assist field personnel in state, local, and EPA regional offices in conducting multimedia inspections of drycleaning facilities that use perc.

Drycleaning Sector Compliance Strategy

EPA 305-F-96-003 (August 1996) 80 pages
This document outlines EPA's strategy to provide compliance assistance to the perc drycleaning industry. It provides a background of the industry and describes primary compliance issues. This document is meant to help federal, state, and local regulators understand the specific compliance needs and challenges of the garment care industry.

List of Major Federal Regulations Affecting Petroleum Cleaners: Fact Sheet

EPA 744-F-99-005 (May 1999) 4 pages
This document serves as a guide to EPA and OSHA regulations and standards affecting petroleum drycleaners. It also provides a listing of EPA and OSHA officials by geographic region who can be contacted for further information.

Profile of the Drycleaning Industry

EPA 310-R-95-001 (September 1995) 84 pages
This document provides information on all aspects of the garment care industry, including general industry information, industrial processes used, pollution prevention techniques, pollutant release data, regulatory requirements, and examples of current EPA initiatives geared toward the garment care industry.

Chemicals in the Environment: Perchloroethylene

EPA 749-F-94-020 (December 1994) 2 pages
This brochure explains what perc is, how it is used, and what happens once it enters the environment.

Case Study: Water-Based Cleaning System for Suede and Leather

EPA 744-K-98-017 (May 1999) 4 pages
This case study provides information on the cost, performance, environmental impact, and human health and safety

impact of the Kirk's Suede-Life, Inc. clothes cleaning technology and process.

Case Study: Liquid Carbon Dioxide Surfactant System for Garment Care

*EPA 744-F-99-002 (May 1999) 8 pages*This case study provides information on the cost, performance, environmental impact, and human health and safety impact of the MiCare TM clothes cleaning technology and process.

Case Study: Wetcleaning Systems for Garment Care

EPA 744-F-98-016 (May 1999) 8 pages

This case study provides information on the cost, performance, environmental impact, and human health and safety impact of wetcleaning technologies and processes.

Industrial Ecology Fact Sheet

EPA 744-F-99-001 (May 1999) 2 pages

This document provides information on EPA's Industrial Ecology approach to examining the garment care industry and how it interrelates with the upstream fiber, textile, and garment retail industries. The purpose of applying the Industrial Ecology approach is to identify effective means of incorporating pollution prevention into the garment care industry.

Soil Screening Guidance: Fact Sheet

EPA 540-F-95-041 (June 1996) 12 pages
This fact sheet summarizes key aspects of the EPA's Soil
Screening Guidance. The Soil Screening Guidance is a tool
developed by EPA to help standardize and accelerate the
evaluation and cleanup of contaminated soils at sites on the
National Priorities List (NPL) where future residential land

Soil Screening Guidance: User's Guide

EPA 540-R-96-018 (July 1996) 49 pages

use is anticipated.

This User's Guide provides a simple step-by-step methodology for environmental science/engineering professionals to calculate risk-based, site-specific soil screening levels (SSLs) for contaminants in soil that may be used to identify areas needing further investigation at NPL sites.

The Soil Screening Guidance User's Guide and Factsheet are only available through the National Technical Information Service (800-553-6847) or can be downloaded from the following website at no charge: http://www.epa.gov/oerrpage/superfund/resources/soil/index.htm.

The Internet is a convenient tool for researching nearly any topic, including garment care. Because homepages are frequently revised, new information can often be accessed sooner online than in hard copy. Garment care professionals who wish to stay informed about developments within their industry may want to consider learning more about the options available on the Internet.

Searching the Internet for information is not difficult. Topics can be accessed using "keywords." Someone interested in learning more about wetcleaning technologies, for example, can key in *wetcleaning*, and your "browser" software will search the Internet for any site that contains that word. The user then has the option to visit the sites found in the search by clicking on the name of the site.

EPA Resources

Primary Program Contacts

For Information on the EPA Design for the Environment Garment and Textile Care Program:

Cindy Stroup, Program Manager 401 M Street, SW (7406) Washington, DC 20460 (202) 260-3889

E-mail: stroup.cindy@epa.gov

(202) 260-0816

For information on the EPA Clean Air Act Perc NESHAP:

George Smith, Emissions Standards Division US EPA MD-13

Research Triangle Park, NC 27711 (919) 541-1549

E-mail: smith.georgef@epa.gov

For information on overall enforcement and compliance issues:
Joyce Chandler, Office of Enforcement and Compliance Assurance
US EPA
401 M Street, SW
2224A
Washington, DC 20460
(202) 564-7073
(202) 564-0009

E-mail: chandler.joyce@epa.gov

EPA Regional Drycleaning Contacts

EPA's 10 regional offices work closely with state and local governments, as well as with EPA headquarters. Listed below are contacts within EPA's regional offices that can answer questions about garment care regulatory compliance, management of garment care solvents, and pollution prevention options (where noted).

Region 1 [CT, ME, MA, NH, RI, VT]

1 Congress Street Suite, 1100 (SEA) Boston, MA 02114-2023

Doug Koopman, Compliance (617) 918-1747, fax: (617) 918-1809 koopman.douglas@epa.gov

Region 2 [NJ, NY, Puerto Rico, Virgin Islands]

290 Broadway New York, NY 10007-1866 Diane Buxbaum, Drycleaning Project/Compliance Assistance (2DECA-CAPS) 21st Floor (212) 637-3919, fax (212) 637-4035

Carl Plossl, Engineer, RCRA Compliance (2DECA-RCB) 22d Floor, (212) 637-4137; fax: (212) 637-4949 22d Floor

Venkata Rao, Air Compliance (2DECA-ACB) 21st Floor (212) 637-4053; fax (212) 637-3998

Region 3 [DE, DC, MD, PA, VA, WV]

1650 Arch Street Philadelphia, PA 19103-2029

Richard Segrave-Daly, Compliance and Drycleaning Pollution Prevention Business Assistance Center (3RA20) (800) 228-8711 or (215) 814-5535 Fax (215) 814-2783

Artra B. Cooper, Enforcement (3AP22) (215) 814-2096 (215) 814-2114 fax

Region 4 [AL, FL, GA, KY, MS, NC, SC, TN]

61 Forsyth Street, SW. Atlanta, GA 30303-3415

Rosalyn Hughes, Compliance (4APT-AEEB) (404) 562-9206 fax (404) 562-9164

Region 5 [IL, IN, MI, MN, OH, WI]

77 West Jackson Boulevard Chicago, IL 60604-3590

John Kelly, Compliance (AR-18J) (312) 886-4882 fax (312) 886-5824

Phil Kaplan, Pollution Prevention (DW-8J) (312) 353-4669 fax: (312) 353-4788

Region 6 [AR, LA, NM, OK, TX]

1445 Ross Avenue (6EN-AA) Dallas, TX 75202-2733

Mary K. Marusak, Compliance and Enforcement (214) 665-7598; fax (214) 665-7446

Region 7 [IA, KS, MO, NE]

726 Minnesota Avenue Kansas City, KS 66101-2798

Alma Moreno-Lahm, Compliance, Drycleaning Sector Team (913) 551-5232 (ENSV/ARCM) fax: (913) 551-5287

Gary Schlicht, Compliance (MACT air rule) (ARTD/APCO) (913) 551-7097; fax (913) 551-7065

Ron Stone, DfE Drycleaning Sector (ARTD/SWPP) (913) 551-7158; fax (913) 551-7065

Jennifer Anderson, DfE Drycleaning Sector (ARTD/SWPP) (913) 551-7644; fax (913) 551-7521

Gary Bertram, General DfE Program Contact (ARTD/SWPP) (913) 551-7533, fax: (913) 551-7065

Region 8 [CO, MT, ND, SD, UT, WY]

999 18th Street Denver Place, Suite 500 Denver, CO 80202-2045

Tami Thomas-Burton, Enforcement/Compliance (8ENF-T) (303) 312-6581

fax: (303) 312-6409

Victoria Parker-Christensen Small Business Assistance Program (8P-AR) (303) 312-6441 fax: (303) 312-6064

Anne-Marie Patrie Small Business Assistance Program (8P-AR) (303) 312-6524 fax (303) 312-6064

Region 9 [AZ, CA, NV, HI, American Samoa, Guam]

75 Hawthorne Street San Francisco, CA 94105

Angela Baranco, Air Div-Compliance Asst Program (AIR-6) (415) 744-1196

Fax: (415) 744-1073

Eileen Sheehan, Drycleaning Project (WST-1-1) (415) 744-2190 fax: (415) 744-1680

Region 10 [AK, ID, OR, WA]

1200 Sixth Avenue Seattle, WA 98101

Dan Meyer, Drycleaning Project (OAQ-107) (206) 553-4150 fax (206) 553-0110

Other Government Resources

♦ Department of Commerce Office of Textiles and Apparel (OTEXA)

International Trade Administration Room H3100 14th and Constitution Avenue, N.W. Washington, D.C. 20230 Troy H. Cribb Deputy Assistant Secretary (202) 482-3737 (202) 482-2331 fax

http://otexa.ita.doc.gov/

Federal Trade Commission (FTC) is responsible for enforcing the Care Labeling Rule, which informs consumers about proper cleaning methods for garments and helps consumers and garment care professionals clean products without damaging them. FTC is considering modification of the Care Labeling Rule to permit the use of a professional wetcleaning instruction on garment labels when appropriate. The latest developments on the amendment of the Care Labeling Rule are posted on the FTC's homepage at http://www.ftc.gov.

Federal Trade Commission 601 Pennsylvania Ave., NW., Room 4302 (S) Washington, DC 20580 Connie Vecellio (202) 326-2966 E-mail: cvecellio@ftc.gov

Stephen Ecklund, Bureau of Consumer Protection

(202) 326-2841 (202) 326-2558 fax E-mail: secklund@ftc.gov http://www.ftc.gov

National Institute of Occupational Safety and Health (NIOSH) is charged with researching health and safety aspects of industry and generating information from its findings. In its work with the garment care industry, NIOSH has evaluated drycleaning machines, potential retrofits, associated work practices, and the effects of perc exposure.

4676 Columbia Parkway, R5 Cincinnati, OH 45226-1998 Leroy Mickelson (513) 841-4380 or (800) 35-NIOSH (64674) (513) 841-4506 fax E-mail: rlm3@cdc.gov http://www.cdc.gov/niosh/homepage.html

♦ Occupational Safety and Health Administration (OSHA) is evaluating the industries affected by the reduction of perc permissible exposure limits, one of which is the garment and textile care industry. OSHA's research efforts focus on reducing worker exposure to perc, assessing technologies in terms of exposure levels,

and investigating viable substitutes.

200 Constitution Avenue, NW., Room 3718 Washington, DC 20210 Linda Penniman, Office of Health Standards (202) 693-2093

E-mail: Linda.penniman@osha-no.osha.gov

Paul Bolon, Office of Regulatory Analysis (202) 693-1960 E-mail: Paul.bolon@osha-no.osha.gov

http://www.osha-slc.gov/html/oshdir.html

Small Business Administration's Small Business
Development Center (SBDC) Program provides
management assistance to current and prospective small
business owners. SBDC offer one-stop assistance to small
businesses by providing a wide variety of information
and guidance in central and easily accessible branch
locations. For a complete list of SBDCs nationwide,
call (202) 205-6766. The following SBDC contacts
specialize in environmental assistance.

http://www.sbaonline.sba.gov

California Trade and Commerce 801 K Street Suite 1700 Sacramento, CA 95814 Kimberley Neri (916) 324-9538

http://commerce.ca.gov/business/small/starting/sb-sbdcl.html

Iowa State University 137 Lynn Ave Ames, Iowa 50010 Ron Manning (515) 292-6351

Dept. of Commerce and Community Affairs 620 East Adams Springfield, IL 62701 Mark Enstrom (217) 524-5856

University of Kentucky Business and Economics Building, Room 227 Lexington, KY 40506 Greg Copley (606) 257-1131

University of Nebraska at Omaha 1313 Farnam Street, Suite 132 Omaha, NE 68182 Rick Yoder (402) 472-1183

Department of Development 77 South High St 28th Floor Columbus, OH 43216 Holly Schick (614) 466-2711

University of Nevada in Reno College of Business Administration/032 Reno, NV 89557-0100 Kevin Dick (775) 689-6677

University of Pennsylvania 3733 Spruce Street Philadelphia, PA 19104 Christopher Lynch (215) 573-7555 Dallas County Community College 1402 Corinth Street, Suite 1520 Dallas, TX 75215 Bill Weddle (214) 860-5822

Vermont Technical College P.O. Box 188 Randolph Center, VT 05061 Peter Crawford (802) 728-9101

Department of Business Assistance 707 East Main Street, Suite 300 Richmond, VA 23219 Robert Wilburn, State Director (804) 371-8254 (804) 225-3384 E-mail: Rwilburn@dba.state.ya.us

University of Wisconsin 432 North Lake Street Room 423 Madison WI 53706 Erica Kauten (608) 263-7794

International Resources

♦ Environment Canada, the Canadian equivalent of EPA, has general information about such issues as Canadian environmental assessments, national water research, pollution data, and climate information. It also has published a workbook for garment care professionals called *The Green Team*, which outlines better work practices and pollution prevention ideas that garment care professionals can implement to reduce workers' exposure to perc.

4905 Dufferin Street, Toronto Toronto, Ontario M3H 5T4 Canada Brad Cumming (416) 739-5883 (416) 739-4251 fax

http://www.ns.doe.ca

♦ Hohenstein Institutes

Independent, internationally recognized research and service center with more than 150 experienced scientists and staff. In state-of-the-art laboratories and facilities, basic and applied research focuses on innovative products and processes for the textile, apparel, and the textile care industries. The institutes performed the first comprehensive research and field studies that led to the evolution of environmentally friendly textile care technologies.

Hohenstein Institutes Schloss Hohenstein D-74357 Boennigheim Germany Professor Josef Kurz, Director +49-7143-271-0 +49-7143-271-51

E-mail: info@hohenstein.de http:/www.hohenstein.de

♦ International Drycleaners Congress (IDC)

Worldwide organization that promotes international good will and professional information exchange for leaders in the textile care industry.

9016 Oak Branch Drive Apex, NC 27502 Dr. Manfred Wentz, Executive Director (919) 387-8326 (919) 363-5062 fax

E-mail: mcwentz97@msn.com

♦ International Drycleaning Research Committee (IRDC)

Organization of international textile care research institutes.

Hohenstein Institutes Schloss Hohenstein D-74357 Boennigheim Petra Klein, President +49-7143-271-100 +49-7143-271-51 fax

E-mail: p.klein@hohenstein.de

♦ wfk-Forschungsinstitut für Reinigungstechnolo

(wfk-Cleaning Technology Research Institute) is a group of institutes specializing in cleaning technology whose primary task is conducting research projects for small and medium enterprises.

Adlerstrasse 42 Postfach 13 07 62 D-47798 Krefeld Germany

Dr. Helmut Kruessmann, Institute Director

+49-2151-770072 +49-2151-770075 fax E-mail: Info@wfk.de

http://www.wfk.de

Organizational Resources

Many non-government organizations can provide helpful services for garment care professionals and others interested in garment care issues. These service organizations range from national trade associations to public interest groups. Listings include contact names, phone and fax numbers, and website addresses where applicable.

National Trade Associations

♦ American Apparel Manufacturers Association (AAMA)

2500 Wilson Blvd. Suite 301 Arlington, VA 22201 (800) 520-2262

http://www.americanapparel.org/

♦ American Association of Textile Chemists and Colorists (AATCC)

1 Davis Drive Research Triangle Park, NC 27709 Dr. John Daniels, Executive Director (919) 549-8141 (919) 549-8933 fax

http://www.aatcc.org/Default.htm

♦ American Fibers Manufacturers Association (AFMA)

1150 17th Street, N.W., Suite 310 Washington, D.C. 20036. (202) 296-6508 (202) 296-3052 fax http://www.fibersource.com/

nttp://www.nbcrsource.com/

◆ Canadian Cleaners & Launderers Allied Trade Association

299 Mill Road Suite 2108 Etobicoke, ON M9C 4V9 Canada Steve Freeman, President (416) 622-7442

♦ Canadian Fabricare Association

P.O. Box 24026 Kitchener, ON N2M 5P1 Canada V.W. (Vic) Vandermolen, Executive Director (519) 576-4500 (519) 576-8869 fax

♦ Canadian Laundry & Linen Institute

P.O. Box 2277, Station A London, ON N6A 4E9 Canada (519) 434-6261 (519) 434-6261 fax

Canadian Research Institute of Launderers and Cleaners

135 Ottawa Street, South Kitchener, ON N2G 3T1 Canada Bill Renaud, President (416) 620-1207

♦ Cleaners and Launderers Association

Executives

P.O. Box 924135 Houston, TX 77292 Jean Warnke, Secretary (713) 869-3805

♦ Coin Laundry Association

1315 Butterfield Road, Suite 212 Downers Grove, IL 60515 Doug Ewald, Chairman (630) 963-5547 (630) 963-5864 fax http://www.coinlaundry.org

♦ Federation of Korean Drycleaners Association

Byung II Cho, President 1309 Fenwick Lane Silver Spring, MD 20910 (301) 589-2700 (301) 589-1410 fax

http://www.koreandryclean.com

♦ Halogenated Solvents Institute of America (HSIA)

was formed in 1980 by a group of executives and scientists in the chlorinated solvents industry to meet the growing challenges of government regulation. HSIA is dedicated to serving the interests of the halogenated solvents industry - interests that include solvent equipment manufacturers, and producers, distributors, and commercial users of halogenated solvents.

2001 L Street, N.W. Suite 506A Washington, Dc 20036 Steve Risotto (202) 775-0232 or (888) 594-4742 (202) 833-0381 fax http://www.hsia.org

♦ International Fabricare Institute

12251 Tech Road Silver Spring, MD 20904 William Fisher, Chief Executive Officer E-mail: fisher@ifi.org (301) 622-1900, Ext. 113 (301) 236-9320 fax http://www.ifi.org

Korean Drycleaners Business Group

4715 Commerce Lane Bethesda, MD 20814 Max Oh, President (301) 654-1500

♦ National Coalition of Petroleum Drycleaners

4041 Powder Mill Road, Suite 404 Calverton, MD 20705-3106 (888) 256-2732 or (301) 348-2004 (301) 348-2020 fax

♦ Neighborhood Cleaners Association- International

252 West 29th Street New York, NY 10001 William Seitz, Executive Director (212) 967-3002 x231 (212) 967-2240 fax

♦ Non Affiliated Drycleaners Alliance

7950 Henry Avenue Suite 5A Philadelphia, PA 19128-3005 Scott R. Alloway (215) 482-4036 E-mail: sralloway@aol.com

http://members.aol.com/_ht_a/nadagroup/sets.html

♦ Uniform and Textile Service Association

1300 North 17th Street Suite 750 Arlington, VA 22209 David Hobson, President (703) 247-2600 http://www.utsa.com

Regional Trade Associations

♦ California Cleaners Association

The Messersmith Group 1730 I Street Suite 240 Sacramento, CA 95814 Lee Adler, CAE E-mail: Lee@assn-offices.com (916) 443-9023 or (916) 443-0986 (916) 443-8065 fax http://www.calcleaners.com

♦ Illinois State Fabricare Association

3077 West Jefferson Suite 205 Joliet, IL 60435 (815) 729-0137 (815) 729-0152 fax Http://www.isfa.net

♦ Mid-America Fabricare Association

4233 Sulpher Ave. St. Louis, MS 63109 Dennis Loomis, Executive Director (314) 832-1839 (314) 832-6775 fax (Serving Kansas and Missouri) E-mail: mafa@nie1.com

♦ Mid-Atlantic Cleaners & Launderers Association

7430 Little Chatterton Lane King George, VA 22485 David Norford, Executive Vice President (540) 775-2525 (540) 775-7441 fax (Serving Maryland, Virginia, West Virginia, and Washington, DC)

♦ Northeast Fabricare Association

580 Main Street Reading, MA 01867 Tom Gosselin, President (800) 442-6848 (781) 942-7393 fax (Serving Massachusetts, Rhode Island, New Jersey, New York, Connecticut, Vermont, New Hampshire, and Maine)

http://www.nefabricare.com Northwest Drycleaners Association

Clampitts Cleaners 7633 S.E. 27th Mercer Island, WA 98040 Craig Clampitt, Executive Director (206) 232-3236 (Serving Washington)

♦ Rocky Mountain Fabricare Association

3867 Tennyson Denver, CO 80212 Gary Leeper, Executive Director (303) 433-4446 (303) 458-0002 fax (Serving Colorado, Utah, and Wyoming) http://www.rmfa.org/

♦ South Central Fabricare Association

812 North President Street Jackson, MS 39202 Darienne Wilson, President (601) 352-4291 E-mail: dwilson@mstourism.com (Serving Louisiana and Mississippi)

♦ Southeastern Fabricare Association

500 Sugar Mill Road Suite 200-A Atlanta, GA 30350 Raleigh Powell, Acting Executive Director (770) 998-9900 (770)(998-1441 fax (Serving Alabama, Georgia, Florida, and South Carolina) http://www.sefa.org

♦ Southwest Drycleaners Association

1800 NE Loop 410, Suite 308 San Antonio, TX 78210 Andrew Stanley Jr., CAE, Executive Director (210) 826-4684 (Serving Arkansas, New Mexico, Oklahoma, and Texas) http://www.sda-dryclean.com/index.html

♦ Textile Care Allied Trades Association

271 Rte 46 West Suite D203 Fairfield, NJ 07004 David Cotter, Executive Director (973) 244-1790 (973) 244-4455 fax tcata@ix.netcom.com

♦ Wisconsin Fabricare Institute

9910 West Layton Avenue Greenfield, WI 53228 Joe Phillips (414) 529-4707 (414) 529 4722 fax

Labor Unions

◆ United Needleworkers and Industrial Textile Employees (UNITE)

275 Seventh Avenue
Sixth Floor
New York, NY 10001
Eric Frumin
(212) 691-1691
(212) 807-0874 fax
E-mail: efrumin@uniteunion.org
http://www.uniteunion.org

Public Interest Groups

 Business and Professional People for the Public Interest (BPI).

17 East Monroe Street #212 Chicago, IL 60603 Joe Patton (312) 641-5570 (312) 641-5454 fax http://www.tripod.com/explore/jobs_career/goodworks/jobs/130.html

Consumers Union, publisher of Consumer Reports, is a nonprofit organization established to provide consumers with information and advice on goods, services, health, and personal finance, and to initiate and cooperate with individual and group efforts to maintain and enhance the quality of life for consumers.

101 Truman Avenue Yonkers, NY 10703-1057 Barbara Warren (914) 378-2000 (914) 378-2928 fax

http://www.consumerreports.org

Greenpeace, a nonprofit research and advocacy organization, will issue a new report on garment care and the role of alternative technologies in 1999. The report, tentatively titled Out of Fashion: Transition to a Toxic-free Fabric Care Industry, champions wetcleaning and looks ahead to innovations such as liquid carbon dioxide and other nontoxic cleaning methods, as well as addresses issues such as transition planning. For the latest status on this document, contact:

417 South Dearborn Street Suite 420 Chicago, IL 60605 Dave DeRosa (312) 554-1028 (312) 554-1224 fax

http://www.greenpeaceusa.org/campaigns/ toxics/ wetclean.html

Korean Youth and Community Center (KYCC) Cleaners Assistance Program is committed to providing Korean American drycleaners with accurate, timely, and bilingual information on new technologies in the industry. KYCC hosts demonstration tours and intensive workshops on the wetcleaning process with a Korean cleaner who converted from drycleaning to wetcleaning after 12 years. KYCC's resources include an information packet, a wetcleaning video, resources for financing, training and general business technical assistance.

680 South Wilton Place Los Angeles, CA 90005 Jenni Cho, Program Manager (213) 365-7400, Ext. 118 (213) 383-1280 E-mail: jennicho@hotmail.com

Research and Technical **Assistance Organizations**

Ann Hargrove and Associates is an alternative technologies consultant that specializes in wetcleaning technologies.

8132 Salisbury Avenue Lyons, IL 60534 Marilyn Flemming, President (414) 783-5575 (414) 783-7296 fax E-mail: natural@thepark.net

ahargr7630@aol.com

CAMP, Inc. (formerly Cleveland Advanced Manufacturing Program), a nonprofit organization based in the Cleveland, Ohio area, has a 5-year plan to reduce the release of chlorinated solvents, including perc, in the Great Lakes Basin. With help from the Center for Neighborhood Technology, CAMP provides resources to assist garment care professionals interested in wetcleaning as an alternative to using perc.

18554 Haskins Road Chagrin Falls, OH 44023 Joseph Chadbourne (440) 543-7303 (440) 543-7160 fax

Center for Neighborhood Technology (CNT),

is home to the premier research and technical assistance clearinghouse for information on alternative clothes cleaning processes. A nonprofit, educational and technical support organization, CNT is a stakeholder in the DfE Garment and Textile Care Program. CNT has developed a report on a wetcleaning demonstration shop, the Greener Cleaner, that includes financial and performance data. A promotional video on wetcleaning called Wetcleaning: the Wave of the Future is also available.

2125 West North Avenue Chicago, IL 60647 Sylvia Ewing (773) 278-4800, Ext. 129 Anthony Star (773) 278-4800, Ext. 117 (773) 278-3840 fax

http://www.cnt.org/wetcleaning/

Cuvahoga Community College FabriCare Technol**ogy Center** is a comprehensive source of technology transfer, training, and information for the garment care industry. The center provides services and support in both traditional and emerging technologies. It also provides outreach at both the state and national levels.

FabriCare Technology Center Cuyahoga Community College 2237 Clair Ave. Cleveland, OH 44114 Christine Kovach (216) 987-3700 (216) 987-3702 fax E-mail: christine.kovach@tri-c.cc.oh.us

http://www.tri-c.cc.oh.us/

Ecology Action is a private, nonprofit organization working with businesses and local governments to reduce hazardous and solid waste and conserve material resources. In 1997, the group started the Safer Technologies in Fabricare Program to provide technical assistance for drycleaners to reduce perc usage while educating them about alternatives such as wetcleaning, CO₂, Rynex, and Ultrasound. As part of this program, Ecology Action is hosting wetcleaning workshops covering equipment operation, cleaning techniques, marketing approaches, and financial incentive programs. The Safer Technologies in Fabricare Program also trains cleaners in a peer

compliance assistance project, promotes consumer awareness of wetcleaning, and helps cleaners stay in business when landlords wish to phase out perc drycleaning on their properties.

P.O. Box 1188 Santa Cruz, CA 95061 Anna Hirst anna@ecoact.org (831) 426-5925, Ext. 30 (831) 425-1404 fax http://www.ecoact.org

Tellus Institute is a research organization that publishes reports on a variety of environmental issues such as Clean Air Act compliance and environmental cost accounting for businesses. Tellus Institute is a stakeholder in the DfE Garment and Textile Care Project, and has developed a *Pollution Prevention/Waste Minimization* manual for garment care professionals.

11 Arlington Street Boston, MA 02116-3411 Dr. Deborah Savage (617) 266-5400 (617) 266-8303 fax http://www.tellus.org

◆ Toxics Use Reduction Institute (TURI), a research, education, policy, and technical support organization, has developed a curriculum and related workshops to train garment care professionals to reduce their use of solvents. The curriculum focuses on alternative cleaning technologies, particularly wetcleaning, and includes sections on economics, worker health and safety, and liability issues. As part of its Cleaner Technology Demonstration Sites Program, TURI also has developed an in-depth analysis of the technology demonstrated in 1996 at Utopia Cleaners in Arlington, Massachusetts. This report documents Utopia's experience with a small wetcleaning machine, including the challenges faced by the cleaner, and how it overcame them.

The Massachusetts Toxics Use Reduction Institute University of Massachusetts Lowell One University Avenue Lowell, Massachusetts 01854-2866 (978) 934-3275 (978) 934-3050 fax

http://www.turi.org

Academic Programs

♦ Auburn University Textile Engineering The Textile Engineering Department, working cooperatively with the Department of Consumer Affairs, serves the integrated textile industry. It prepares students to manage in the industry, gives it technical support, and broadens its vision. Its research supports the industry's knowledge base. It assists industry with technical support, continuing

education, and in building relations with the community and general public. It works to involve other disciplines, both in and out of Auburn University, in important textile issues.

Department of Textile Engineering 115 Textile Building Auburn University, AL 36849-5327 (334) 844-5457 (334) 844-4068 fax

http://www.eng.auburn.edu/department/te/tehome.html

♦ Catawba Valley Community College (CVCC)

2550 Hwy. 70 SE Hickory, NC 20862 (828) 327-7000 (828) 327-7276 fax http://www.cvcc.cc.nc.us

Polymer Science In addition to its graduate programs, the School offers Bachelor of Science degree programs in Textile Chemistry, Textile Science and Textile Management. The School works closely with the textile industry and individual textile firms to enhance undergraduate.

Clemson University School of Textiles, Fiber and

and individual textile firms to enhance undergraduate textile education at Clemson. This school is also unique in the educational world in that it supplies all the needs of a highly specialized industry, including technical information and competently trained personnel. From the formation of fibers to the aesthetics of cloth, the School provides a technological base for every aspect involved in "creating" a textile structure.

Clemson University School of Textiles, Fiber and Polymer Science 161 Sirrine Hall Box 341307 Clemson, S.C. 29634-1307 (864) 656-3176 (864) 656-5973 fax http://www.eng.clemson.edu/textiles/Textiles.html

Florida State University The Department of Textiles and Consumer Sciences offers graduate and undergraduate courses of study related to two basic human needsclothing and housing--using an integrative approach which addresses the needs of business/industry and the interest of consumers. The program provides educational and experiential opportunities in the design, production, distribution, management, consumption, and preservation of apparel and housing, as well as other consumer products.

Department of Textiles and Consumer Sciences Sandels Bldg. Rm 332 College of Human Sciences Tallahassee, Florida 32306-1492 (850) 644-2498 http://www.fsu.edu/~human ♦ Georgia Tech School of Textile & Fiber Engineering 801 Ferst Drive Atlanta, GA 30233-0295 1-800-533-7815

http://www.gatech.edu/textile/tfehome.html

North Carolina State University (NCSU)
College of Textiles (COT) COT is housed in new buildings with the most modern teaching, research and laboratory facilities on the Centennial Campus of NCSU. Two departments, the Department of Textile Engineering, Chemistry and Science (TECS) and the Department of Textile & Apparel Technology and Management (TATM) graduate more than half of the textile graduates in the United States each year. Innovative programs bridge the gap between traditional education, research and extension activities of the university and the fiber, textile, apparel and retail industries, consumers and the textile care industries.

North Carolina State University College of Textiles Box 8301 Raleigh, NC 27695-8301 Dr. Perry Grady, Associate Dean (919) 515-6651 (919) 515-3057 fax E-mail: pgrady@tx.ncsu.edu http://www.tx.ncsu.edu/index.html

♦ Philadelphia College of Textiles and Science

School of Textile and Materials Technology Philadelphia College of Textiles and Science Schoolhouse Lane and Henry Avenue Philadelphia, PA 19144 (215) 951-2700 (215) 951-2615 fax

http://www.fibers.texsci.edu

♦ Texas Research Center for Laundry and Drycleaning at Tayas Women's University, provides a facility for

ing, at Texas Woman's University, provides a facility for educational programs, research, and training in laundering and garment care technology. In addition, applied research relating to cleaning technology with consideration for environmental and quality concerns in the laundry and garment care industry is conducted there.

♦ Texas Woman's University

P.O. Box 425529 Denton, TX 76204 Dr. Charles Riggs (940) 898-2670 (940) 898-2711 fax E-mail: criggs@twu.edu

http:/www.twu.edu

Testing and Standard Setting Resources

♦ American Association of Textile Chemists and Colorists (AATCC)

1 Davis Drive Research Triangle Park, NC 27709 Dr. John Daniels, Executive Director (919) 549-8141 (919) 549-8933 fax http://www.aatcc.org/Default.htm

♦ American Society for Testing and Materials (ASTM)

100 Bar Harbor Drive West Conshohocken, PA 19428 Bodie Buckley (610) 832-9740 (610) 832-9666 fax

E-mail: bbuckley@astm.org http://www.astm.org

Other Non-government Resources

♦ Fabricare Legislative and Regulatory Education (FLARE) is a grassroots organization composed of volunteers from within the garment care industry. FLARE's mission is to foster an environment in which the garment care industry can prosper. The organization seeks to accomplish this by providing a communications channel for the industry to facilitate discussion and education among industry members, regulators, legislators, and the general public on issues pertaining to the industry.

P.O. Box 5157 Naperville, IL 60567-5157 James Mayberry (630) 416-6221 (630) 416-4150 fax E-mail: info_flare@aol.com

In addition to EPA information on garment care, the Internet houses information on an abundance of relevant organizations, articles, and fact sheets, including:

- ApparelNet, an online guide for the apparel industry, is a comprehensive, fast, free and easy-to-use resource for apparel-related companies, information, products and services. http://www.apparel.net/about.cgi
- ♦ Better Business Bureau offers drycleaning related information on its website at http://www.bbb.org/library/dryclean.html
- ♦ The Center for Neighborhood Technology, a nonprofit educational and technical assistance organization, has a homepage that is an excellent source of news about alternative garment care options, with a focus on wetcleaning. The site also offers a list of resources that can be requested by e-mail. http://www.cnt.org/wetcleaning/

- ◆ The Corner Cleaner Page, "A World Wide Web Resource for Drycleaners," is an essential site for Web-browsing garment care professionals. This homepage offers a wide range of current resources, such as Clean Air Act rules and other regulatory information, articles on recent developments in the industry, and links to other garment care related sites. http://www.pond.com/~hhorning/ index.html
- ◆ Dateline/Calendar Pages chronicle upcoming events in the garment care industry. http://www.pond.com/ ~hhorning/events/dateline.html
- Delia's Cleaners offers consumer information on garment care on their website at http://www.dcimg. com/fabricx.html
- ◆ FabricLink's mission is to provide retailers and consumers with education and information about fabrics, apparel and clothing care, and mills, manufacturers, and fiber producers with a forum to create awareness and interest in their products through educational presentations. http://www.FabricLink.com/
- ◆ Florida Agricultural Information Retrieval System (FAIRS) is a comprehensive electronic library of information from major programs within the University of Florida's Institute of Food and Agricultural Sciences Cooperative Extension Service. The site offers information on clothing care. http://hammock.ifas.ufl.edu/txt/fairs/19777
- ♦ The Florida Department of Environmental Protection, Division of Waste Management has a homepage dealing directly with its Drycleaning Solvent Cleanup Program, which gives information on how to obtain an application form and a site screening form for your garment care facility. http://www2.dep.state.fl.us/waste/programs/dryclean/
- ◆ International Fabricare Institute (IFI) has a website offering information on clothing care, textiles, and educational opportunities within the industry. http://www. ifi.org
- International Textile and Apparel Association (ITAA) The ITAA website became active in July 1996. The ITAA site along with other sites was developed as part of a joint university project supported by a USDA Office of Higher Education Challenge Grant entitled, "Establishment of a Fiber, Textiles, and Apparel Information Resource on the World Wide Web." The purpose of the grant is to establish and maintain an information resource on the Internet in the form of a dedicated server on the World Wide Web for faculty and students in fiber, textiles, apparel programs, and related disciplines. http://www.itaa.lsu.edu/

- ♦ Mississippi State University Extension Service has a webpage that offers information on apparel and textiles. http://ext.msstate.edu/fce/foodsafety/Apparel. html#Apparel.html3
- ♦ Ohio State University Extension Page offers several fact sheets on textiles and clothing care. http://www.ag. ohio-state.edu/~ohioline/lines/home.html
- ♦ Oregon's Drycleaner Program The 1995 Oregon
 Legislature established a new drycleaner environmental
 program. In exchange for liability relief from cleanups
 and cleanup costs, drycleaners pay fees that go into a
 fund used to clean up solvent contamination at drycleaner sites. The law protects drycleaners, under
 specified circumstances, from individually having to
 pay for environmental damage caused by the use of
 drycleaning solvents at their drycleaning establishments.
 http://www.deq.state.or.us/wmc/cleanup/dry0.htm
- ◆ Textile Industry Affairs (TIA), a unit of the Clorox Company, mission has been to assist apparel/textile professionals in understanding and implementing the FTC Care Label Rule by helping both the apparel trade and consumers understand and benefit from care symbols and instructions. http://www.textilecare.com/index.htm
- ◆ TextileWeb is dedicated to promoting the goods and services of the textile industry via the Internet with a solid understanding and experience with Internet communications and the textile industry. http://www. textileweb.com/

Internet

EPA Resources on the Internet

Design for the Environment Garment and Textile Care Program Homepage

The DfE Garment and Textile Care Program Homepage is located at http://www.epa.gov/dfe/garment/garment.

httml. The GTCP home page contains links to more detailed program information such as the Information Products page, which contains online versions of most of the EPA publications listed on pages 3 and 4 of this guide. There are links to Upcoming Events, Project Partners, and other related sites. Other DfE Projects are accessible at http://www.epa.gov/dfe.

Office of Air and Radiation Home Page

The Office of Air and Radiation is located at http://www.epa.gov/oar/. This site contains links to detailed information on all of the Office of Air and Radiation Programs.

Office of Water Home Page

The office of Water is located at http://www.epa.gov/ow/. This site contains links to detailed information on all of the Office of Water Programs.

Superfund Program Homepage

The Superfund Program is located at http://www.epa.gov/superfund/. Superfund locates, investigates and cleans up hazardous waste sites throughout the United States. This site provides information on the Superfund Program and includes links to various aspects of the Program.

Office of Enforcement and Compliance Assurance (OECA)/Office of Research and Development (ORD) Network

This network, also known as Enviro\$en\$e, is an interagency-supported system operated by the (OECA) and the (ORD). The network allows regulators, the regulated community, technical experts, and the general public to share information regarding pollution prevention and innovative technology; environmental enforcement and compliance assistance; laws, Executive orders, regulations, and policies; points of contact for services and equipment; and other related topics. The network houses industrial sector notebooks on 18 major industries, including garment care at http://es.epa.gov/
The garment care sector notebook includes:

- A comprehensive environmental profile of the industry.
- ♦ Industrial process information.
- Pollution prevention techniques.
- Pollutant release data.
- Regulatory requirements.
- A compliance and enforcement history of the industry.
- ♦ Innovative programs.
- ♦ Contact names for further information.

Additional information on garment care can be found by contacting the OECA/ORD technical information page at http://es.epa.gov/techinfo/techinfo.html, including:

- ◆ Fact Sheet: Drycleaning and Waste Reduction Page provides tips on better garment care work practices. http://es.epa.gov/techinfo/facts/driclean.html
- Drycleaning Industry Page outlines steps that garment care professionals can take to ensure proper perc separation in water separators. http://es.epa.gov/techinfo/ facts/cheklist.html
- Filter Drying Units Studied for Use at Drycleaners
 Page describes a study measuring the efficiency of
 carbon adsorption technology. http://es.epa.gov/studies/
 cs45.html

Trade Press

American Drycleaner

500 North Dearborn Street Chicago, IL 60610-4901 Earl V. Fischer, Editor (312) 337-7700 (312) 337 8654 fax

E-mail: Adcmag@aol.com

American Textiles International (ATI)

2100 Powers Ferry Road Suite 300 Atlanta, GA 30339 (770) 955-5656 (770) 952-0669 fax

http://billian.com/ati/index.htm

Bobbin World

Bobbin Publishing Group of Miller Freeman Inc. P.O. Box 1986/1110 Shop Rd. Columbia, SC 29201 (800) 845-8820 or 803-771-7500 (803) 799-1461 fax Phttp://www.bobbin.com/

Drycleaners News

70 Edwin Avenue P.O. Box 2180 Waterbury, CT 06722-2180 Dave Johnston, Editor (203) 755-0158 or 800 325-6745 (203) 755-3480 fax http://www.dcn-online.com/dcn

Fabricare

12251 Tech Road Silver Spring, MD 20904 (301) 622-1900 E-mail: communications@ifi.org

Korean Drycleaners Monthly

P.O. Box 318 Fort Lee, NJ 07024 John Chung, Editor (201) 585-7299

Korean Drycleaners Times

145 Madison Avenue, Sixth Floor New York, NY 10016 J.C. Choe, Publisher (212) 545-1815

Laundry Today

119 W. 23rd Street Suite 905 New York, NY 10011 (212) 807-9430 (212) 807-9540 fax

http://www.laundrytoday.com/

National Clothesline

801 Easton Road P.O. Box 340 Willow Grove, PA 19090-0340 Hal Horning, Editor (215) 830-8467 (215) 830-8490 fax

http://members.aol.com/ncled/index.html

Western Cleaner and Launderer

3236 Estado Street Pasadena, CA 91107-2916 Albane F. Wente, Publisher (626) 793-2911 (626) 793-5540

Wetcleaning Update

Center for Neighborhood Technology 2125 West North Avenue Chicago, IL 60647 Anthony Star, Associate Editor (312) 278-4800, Ext. 299 http://www.cnt.org/wetcleaning/

Textile Red Book

2100 Powers Ferry Rd. Atlanta, GA 30339 (770) 955-5656 or 800 533-8484 (770) 952-0669 fax http://billian.com/redbook/

The International Journal of Clothing Science and Technology is highly regarded as a quality, authoritative, specialized publication for all those involved with clothing - whether in fabric design, production, machinery, management or retailing. It is a referred journal and a key source of new research and ideas in its field. A combination of research and technical papers emphasizing the issue of application, short communications, reviews and a register of international textile and clothing research offers a broad coverage of the subject area. http://www.mcb.co.uk/cgi-bin/journal1/ijcst

Principles and Practices of Drycleaning (Student

Notebook) includes information on fabrics, dyes, stain removal, and wetcleaning. It is published in English, Korean and Spanish by the NCAI. Also available is the publication *Fabrics Today in Drycleaning* which is a listing of fabric types, their description, how they are made, potential problems, and methods of handling in cleaning processes. This book is also available in Korean.